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INTERNATIONAL PRELIMINARY EXAMINATION REPORT  
(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 2002CH009	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/PEA/416)	
International application No. PCT/IB 03/04611	International filing date (day/month/year) 17.10.2003	Priority date (day/month/year) 18.10.2002
International Patent Classification (IPC) or both national classification and IPC C09B29/033		
Applicant CLARIANT INTERNATIONAL LTD et al		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 5 sheets, including this cover sheet.
  - ☐ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of    sheets.

3. This report contains indications relating to the following items:
  - I ☒ Basis of the opinion
  - II ☐ Priority
  - III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
  - IV ☐ Lack of unity of invention
  - V ☒ Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
  - VI ☐ Certain documents cited
  - VII ☐ Certain defects in the international application
  - VIII ☐ Certain observations on the international application

Date of submission of the demand 10.03.2004	Date of completion of this report 25.02.2005
Name and mailing address of the international preliminary examining authority:  European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016	Authorized Officer  Ginoux, C  Telephone No. +31 70 340-2839 

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT**

International application No. PCT/IB 03/04611

**I. Basis of the report**

1. With regard to the **elements** of the international application (*Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)*):

**Description, Pages**

1-27 as originally filed

**Claims, Numbers**

1-10 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).  
☐ the language of publication of the international application (under Rule 48.3(b)).  
☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.  
☐ filed together with the international application in computer readable form.  
☐ furnished subsequently to this Authority in written form.  
☐ furnished subsequently to this Authority in computer readable form.  
☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.  
☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- ☐ the description, pages:  
☐ the claims, Nos.:  
☐ the drawings, sheets:

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

*(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)*

6. Additional observations, if necessary:

**INTERNATIONAL PRELIMINARY  
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International application No. **PCT/IB 03/04611**

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**V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;  
citations and explanations supporting such statement**

**1. Statement**

Novelty (N)	Yes: Claims	1-10
	No: Claims	
Inventive step (IS)	Yes: Claims	1-10
	No: Claims	
Industrial applicability (IA)	Yes: Claims	1-10
	No: Claims	

**2. Citations and explanations**

**see separate sheet**

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**Re Item V**

**Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

Reference is made to the following document:

D1: H. MA ET AL: "Detection of trace Cu(II) by a designed calix[4]arene based fluorescent reagent" NEW JOURNAL OF CHEMISTRY., vol. 26, no. 10, 24 September 2002 (2002-09-24), pages 1456-1460, XP008015880 CNRS-GAUTHIER-VILLARS, MONTROUGE., FR ISSN: 1144-0546

The document D1 is regarded as being the closest prior art to the subject-matter of claim 1 and discloses (see compounds 1 and 2) monoazo dyes prepared from 7-amino-3-methylcoumarine as diazo component.

The subject-matter of claim 1 differ from these known compounds in that the claimed dyestuffs are obtained from different coupling components.

The subject-matter of claim 1 is therefore new (Article 33(2) PCT).

The present invention relates to the field of disperse dyes and their use for dyeing or printing hydrophobic materials. Neither D1 nor other documents cited in the search report belong to such a technical field. The problem to be solved by the present invention may be regarded as the provision of novel azo disperse dyes. Since no document of the prior art could be retrieved which disclose or suggest the use of (substituted) 7-amino-3-methylcoumarine as diazo component in the preparation of azo disperse dyes, the solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT)

Having regard to the subject-matter of process claim 5 for the preparation of the compounds of claims 1-4, of use claims 6 and 7, of claim 8 (composition comprising a dyestuff or mixtures thereof according to claims 1, 2, 3 or 4) and of claim 10 (fibres or threads of materials dyed or printed with such compounds), it is observed that its novelty/inventive step is directly dependent from that of the compounds of claim 1.

Claims 2-4 are dependent on claim 1, claim 9 on claim 8, and as such also meet the requirements of the PCT with respect to novelty and inventive step.

**INTERNATIONAL PRELIMINARY  
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